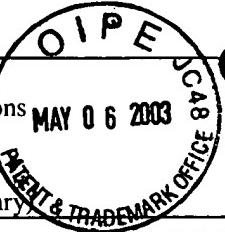


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ATTY. DKT. NO. 5659-08100/TH20

SERIAL NO. 09/841,437

APPLICANT: Stegemeier et al.

GROUP: 3672

FILING DATE: April 24, 2001

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

GS

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Van Krevelen, COAL: Typology-Physics-Chemistry-Constitution, 1993, pp. 27, 42, 52, 322, 323, 324, 325, 326, 526, 527, 726.

*Part of Report #23*

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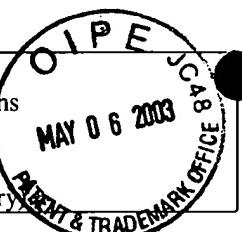
| EXAM.<br>INITIALS | REF.<br>DES. | DOCUMENT NUMBER | DATE     | NAME               | CLASS | SUB<br>CLASS | FILING DATE IF<br>APPROPRIATE |
|-------------------|--------------|-----------------|----------|--------------------|-------|--------------|-------------------------------|
| GJ                | A1           | 760,304         | 05/1904  | Butler             |       |              |                               |
|                   | A2           | 1,342,741       | 06/1920  | Day                |       |              |                               |
|                   | A3           | 1,510,655       | 10/1924  | Clark              |       |              |                               |
|                   | A4           | 1,666,488       | 02/1927  | Crawshaw           |       |              |                               |
|                   | A5           | 1,913,395       | 11/1929  | Kerrick            |       |              |                               |
|                   | A6           | 2,423,674       | 07/1947  | Agren              |       |              |                               |
|                   | A7           | 2,444,755       | 07/1948  | Steffen            |       |              |                               |
|                   | A8           | 2,466,945       | 02/1946  | Greene             |       |              |                               |
|                   | A9           | 2,472,445       | 06/1949  | Sprong             |       |              |                               |
|                   | A10          | 2,484,063       | 10/1949  | Ackley             |       |              |                               |
|                   | A11          | 2,497,868       | 02/1950  | Dalin              |       |              |                               |
|                   | A12          | 2,548,360       | 04/1951  | Germain            |       |              |                               |
|                   | A13          | 2,593,477       | 04/1952  | Newman et al.      |       |              |                               |
|                   | A14          | 2,595,979       | 05/1952  | Pevere et al.      |       |              |                               |
|                   | A15          | 2,630,306       | 01/1952  | Evans              |       |              |                               |
|                   | A16          | 2,634,961       | 04/1953  | Ljungstrom         |       |              |                               |
|                   | A17          | 2,642,943       | 06/1953  | Smith et al.       |       |              |                               |
|                   | A18          | 2,670,802       | 03/1954  | Ackley             |       |              |                               |
|                   | A19          | 2,695,163       | 11/1954  | Pearce et al.      |       |              |                               |
|                   | A20          | 2,732,195       | 01-24-56 | Ljungstrom         |       |              |                               |
|                   | A21          | 2,734,579       | 02-14-56 | Elkins             |       |              |                               |
|                   | A22          | 2,780,449       | 02-05-57 | Fisher et al.      |       |              |                               |
|                   | A23          | 2,777,679       | 01/1957  | Ljungstrom         |       |              |                               |
|                   | A24          | 2,780,450       | 02/1957  | Ljungstrom         |       |              |                               |
|                   | A25          | 2,786,660       | 03/1957  | Alleman            |       |              |                               |
|                   | A26          | 2,789,805       | 04/1957  | Ljungstrom         |       |              |                               |
|                   | A27          | 2,804,149       | 08/1957  | Kile               |       |              |                               |
|                   | A28          | 2,841,375       | 07/1958  | Salomonsson        |       |              |                               |
|                   | A29          | 2,902,270       | 09/1959  | Salomonsson et al. |       |              |                               |
| GJ                | A30          | 2,906,337       | 09/1959  | Henning            |       |              |                               |

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|-------------------|--------------|-----------------|---------|--------------------|-------|--------------|-------------------------------|
| GS                | A31          | 2,914,309       | 11/1959 | Salomonsson        |       |              |                               |
|                   | A32          | 2,923,535       | 02/1960 | Ljungstrom         |       |              |                               |
|                   | A33          | 2,939,689       | 06/1960 | Ljungstrom         |       |              |                               |
|                   | A34          | 2,954,826       | 10/1960 | Sievers            |       |              |                               |
|                   | A35          | 2,974,937       | 03/1961 | Kiel               |       |              |                               |
|                   | A36          | 2,994,376       | 08/1961 | Crawford et al.    |       |              |                               |
|                   | A37          | 2,998,457       | 08/1961 | Paulsen            |       |              |                               |
|                   | A38          | 3,004,603       | 10/1961 | Rogers et al.      |       |              |                               |
|                   | A39          | 3,007,521       | 11/1961 | Trantham et al.    |       |              |                               |
|                   | A40          | 3,095,031       | 06/1963 | Eurenius et al.    |       |              |                               |
|                   | A41          | 3,105,545       | 10/1963 | Prats et al.       |       |              |                               |
|                   | A42          | 3,106,244       | 10/1963 | Parker             |       |              |                               |
|                   | A43          | 3,110,345       | 11/1963 | Reed et al.        |       |              |                               |
|                   | A44          | 3,113,623       | 12/1963 | Krueger            |       |              |                               |
|                   | A45          | 3,114,417       | 12/1963 | McCarthy           |       |              |                               |
|                   | A46          | 3,131,763       | 05/1964 | Kunetka et al.     |       |              |                               |
|                   | A47          | 3,139,928       | 07/1964 | Broussard          |       |              |                               |
|                   | A48          | 3,142,336       | 07/1964 | Doscher            |       |              |                               |
|                   | A49          | 3,149,672       | 10/1964 | Orkiszewski et al. |       |              |                               |
|                   | A50          | 3,163,745       | 12/1964 | Boston             |       |              |                               |
|                   | A51          | 3,164,207       | 01/1965 | Thessen et al.     |       |              |                               |
|                   | A52          | 3,182,721       | 05/1965 | Hardy              |       |              |                               |
|                   | A53          | 3,183,675       | 05/1965 | Schroeder          |       |              |                               |
|                   | A54          | 3,191,679       | 06/1965 | Miller             |       |              |                               |
|                   | A55          | 3,205,946       | 10/1965 | Prats et al.       |       |              |                               |
|                   | A56          | 3,207,220       | 10/1965 | Williams           |       |              |                               |
|                   | A57          | 3,208,531       | 10/1965 | Tamplen            |       |              |                               |
| GS                | A58          | 3,209,825       | 10/1965 | Alexander et al.   |       |              |                               |
|                   |              |                 |         |                    |       |              |                               |

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|-------------------|--------------|-----------------|---------|----------------------|-------|--------------|-------------------------------|
| GS                | A59          | 3,237,689       | 03/1966 | Justheim             |       |              |                               |
|                   | A60          | 3,241,611       | 03/1966 | Dougan               |       |              |                               |
|                   | A61          | 3,250,327       | 05/1966 | Crider               |       |              |                               |
|                   | A62          | 3,267,680       | 08/1966 | Schlumberger         |       |              |                               |
|                   | A63          | 3,284,281       | 11/1966 | Thomas               |       |              |                               |
|                   | A64          | 3,338,306       | 08/1967 | Cook                 |       |              |                               |
|                   | A65          | 3,528,501       | 09/1970 | Parker               |       |              |                               |
|                   | A66          | 3,595,082       | 07/1971 | Miller et al.        |       |              |                               |
|                   | A67          | 3,973,628       | 08/1976 | Colgate              |       |              |                               |
|                   | A68          | 3,992,148       | 11/1975 | Child                |       |              |                               |
|                   | A69          | 3,993,132       | 11/1977 | Garrett              |       |              |                               |
|                   | A70          | 4,016,239       | 04/1977 | Fenton               |       |              |                               |
|                   | A71          | 4,076,761       | 02/1978 | Chang et al.         |       |              |                               |
|                   | A72          | 4,089,372       | 05/1978 | Terry                |       |              |                               |
|                   | A73          | 4,093,026       | 06/1978 | Ridley               |       |              |                               |
|                   | A74          | 4,096,163       | 06/1978 | Chang, et al.        |       |              |                               |
|                   | A75          | 4,130,575       | 12/1978 | Jorn et al.          |       |              |                               |
|                   | A76          | 4,133,825       | 01/1979 | Stroud et al.        |       |              |                               |
|                   | A77          | 4,138,442       | 02/1979 | Chang et al.         |       |              |                               |
|                   | A78          | 4,186,801       | 02/1980 | Madgavkar et al.     |       |              |                               |
|                   | A79          | 4,250,230       | 02/1981 | Terry                |       |              |                               |
|                   | A80          | 4,250,962       | 02/1981 | Madgavkar et al.     |       |              |                               |
|                   | A81          | 4,273,188       | 06/1981 | Vogel et al.         |       |              |                               |
|                   | A82          | 4,274,487       | 06/1981 | Hollingsworth et al. |       |              |                               |
|                   | A83          | 4,299,086       | 11/1981 | Madgavkar et al.     |       |              |                               |
|                   | A84          | 4,299,285       | 11/1981 | Tsai et al.          |       |              |                               |
|                   | A85          | 4,359,687       | 11/1982 | Vinegar et al.       |       |              |                               |
|                   | A86          | 4,363,361       | 12/1982 | Madgavkar et al.     |       |              |                               |
|                   | A87          | 4,366,668       | 01/1983 | Madgavkar et al.     |       |              |                               |
| GS                | A88          | 4,378,048       | 03/1983 | Madgavkar et al.     |       |              |                               |

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GROUP: 3672

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|-------------------|--------------|-----------------|---------|-------------------|-------|--------------|-------------------------------|
| GS                | A89          | 4,381,641       | 05/1983 | Madgavkar et al.  |       |              |                               |
|                   | A90          | 4,398,151       | 08/1983 | Vinegar et al.    |       |              |                               |
|                   | A91          | 4,407,973       | 10/1983 | van Dijk et al.   |       |              |                               |
|                   | A92          | 4,409,090       | 10/1983 | Hanson et al.     |       |              |                               |
|                   | A93          | 4,444,258       | 04/1984 | Kalmar            |       |              |                               |
|                   | A94          | 4,501,445       | 02/1985 | Gregoli           |       |              |                               |
|                   | A95          | 4,530,401       | 07/1985 | Hartman et al.    |       |              |                               |
|                   | A96          | 4,540,882       | 10/1985 | Vinegar et al.    |       |              |                               |
|                   | A97          | 4,542,648       | 10/1985 | Vinegar et al.    |       |              |                               |
|                   | A98          | 4,570,715       | 02/1986 | Van Meurs et al.  |       |              |                               |
|                   | A99          | 4,571,491       | 02/1986 | Vinegar et al.    |       |              |                               |
|                   | A100         | 4,572,299       | 02/1986 | Vanegmond et al.  |       |              |                               |
|                   | A101         | 4,583,046       | 04/1986 | Vinegar et al.    |       |              |                               |
|                   | A102         | 4,583,242       | 04/1986 | Vinegar et al.    |       |              |                               |
|                   | A103         | 4,594,468       | 06/1986 | Minderhoud        |       |              |                               |
|                   | A104         | 4,597,441       | 07/1986 | Ware et al.       |       |              |                               |
|                   | A105         | 4,605,680       | 08/1986 | Beuther et al.    |       |              |                               |
|                   | A106         | 4,613,754       | 09/1986 | Vinegar et al.    |       |              |                               |
|                   | A107         | 4,616,705       | 10/1986 | Stegemeier et al. |       |              |                               |
|                   | A108         | 4,635,197       | 01/1987 | Vinegar et al.    |       |              |                               |
|                   | A109         | 4,640,352       | 02/1987 | Vanmeurs et al.   |       |              |                               |
|                   | A110         | 4,644,283       | 02/1987 | Vinegar et al.    |       |              |                               |
|                   | A111         | 4,658,215       | 04/1987 | Vinegar et al.    |       |              |                               |
|                   | A112         | 4,663,711       | 05/1987 | Vinegar et al.    |       |              |                               |
|                   | A113         | 4,671,102       | 06/1987 | Vinegar et al.    |       |              |                               |
|                   | A114         | 4,716,960       | 01/1988 | Eastlund et al.   |       |              |                               |
|                   | A115         | 4,719,423       | 01/1988 | Vinegar et al.    |       |              |                               |
|                   | A116         | 4,728,892       | 03/1988 | Vinegar et al.    |       |              |                               |
|                   | A117         | 4,730,162       | 03/1988 | Vinegar et al.    |       |              |                               |
| GS                | A118         | 4,743,854       | 05/1988 | Vinegar et al.    |       |              |                               |

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|-------------------|--------------|-----------------|---------|-------------------|-------|--------------|-------------------------------|
| GS                | A119         | 4,762,425       | 08/1988 | Shakkottai et al. |       |              |                               |
|                   | A120         | 4,769,602       | 09/1988 | Vinegar et al.    |       |              |                               |
|                   | A121         | 4,769,606       | 09/1988 | Vinegar et al.    |       |              |                               |
|                   | A122         | 4,793,656       | 12/1988 | Siddoway et al.   |       |              |                               |
|                   | A123         | 4,827,761       | 05/1989 | Vinegar et al.    |       |              |                               |
|                   | A124         | 4,848,924       | 07/1989 | Nuspl et al.      |       |              |                               |
|                   | A125         | 4,856,341       | 08/1989 | Vinegar et al.    |       |              |                               |
|                   | A126         | 4,860,544       | 08/1989 | Krieg et al.      |       |              |                               |
|                   | A127         | 4,866,983       | 09/1989 | Vinegar et al.    |       |              |                               |
|                   | A128         | 4,884,455       | 12/1989 | Vinegar et al.    |       |              |                               |
|                   | A129         | 4,886,118       | 12/1989 | Van Meurs et al.  |       |              |                               |
|                   | A130         | 4,927,857       | 05/1990 | McShea III et al. |       |              |                               |
|                   | A131         | 4,974,425       | 12/1990 | Krieg et al.      |       |              |                               |
|                   | A132         | 4,983,319       | 01/1991 | Gregoli et al.    |       |              |                               |
|                   | A133         | 4,984,594       | 01/1991 | Vinegar et al.    |       |              |                               |
|                   | A134         | 4,987,368       | 01/1991 | Vinegar           |       |              |                               |
|                   | A135         | 4,994,093       | 02/1991 | Wetzel et al.     |       |              |                               |
|                   | A136         | 5,014,788       | 05/1991 | Puri et al.       |       |              |                               |
|                   | A137         | 5,046,559       | 10/1991 | Glandt            |       |              |                               |
|                   | A138         | 5,050,386       | 09/1991 | Krieg et al.      |       |              |                               |
|                   | A139         | 5,060,287       | 10/1991 | Van Egmond        |       |              |                               |
|                   | A140         | 5,060,726       | 10/1991 | Glandt et al.     |       |              |                               |
|                   | A141         | 5,065,818       | 11/1991 | Van Egmond        |       |              |                               |
|                   | A142         | 5,168,927       | 12/1992 | Stegemeier et al. |       |              |                               |
|                   | A143         | 5,189,283       | 02/1993 | Carl, Jr. et al.  |       |              |                               |
|                   | A144         | 5,190,405       | 03/1993 | Vinegar et al.    |       |              |                               |
|                   | A145         | 5,207,273       | 05/1993 | Cates et al.      |       |              |                               |
|                   | A146         | 5,211,230       | 05/1993 | Ostapovich et al. |       |              |                               |
|                   | A147         | 5,226,961       | 07/1993 | Nahm et al.       |       |              |                               |
| GS                | A148         | 5,229,583       | 07/1993 | van Egmond et al. |       |              |                               |

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|-------------------|--------------|-----------------|---------|-------------------|-------|--------------|-------------------------------|
| GS                | A149         | 5,236,039       | 08/1993 | Edelstein et al.  |       |              |                               |
|                   | A150         | 5,255,742       | 10/1993 | Mikus             |       |              |                               |
|                   | A151         | 5,297,626       | 03/1994 | Vinegar et al.    |       |              |                               |
|                   | A152         | 5,306,640       | 04/1994 | Vinegar et al.    |       |              |                               |
|                   | A153         | 5,318,116       | 06/1994 | Vinegar et al.    |       |              |                               |
|                   | A154         | 5,339,897       | 08/1994 | Leaute            |       |              |                               |
|                   | A155         | 5,340,467       | 08/1994 | Gregoli et al.    |       |              |                               |
|                   | A156         | 5,349,859       | 09/1994 | Kleppe            |       |              |                               |
|                   | A157         | 5,388,640       | 02/1995 | Puri et al.       |       |              |                               |
|                   | A158         | 5,388,641       | 02/1995 | Yee et al.        |       |              |                               |
|                   | A159         | 5,388,642       | 02/1995 | Puri et al.       |       |              |                               |
|                   | A160         | 5,388,643       | 02/1995 | Yee et al.        |       |              |                               |
|                   | A161         | 5,388,645       | 02/1995 | Puri et al.       |       |              |                               |
|                   | A162         | 5,391,291       | 02/1995 | Winquist et al.   |       |              |                               |
|                   | A163         | 5,392,854       | 02/1995 | Vinegar et al.    |       |              |                               |
|                   | A164         | 5,404,952       | 04/1995 | Vinegar et al.    |       |              |                               |
|                   | A165         | 5,409,071       | 04/1995 | Wellington et al. |       |              |                               |
|                   | A166         | 5,411,089       | 05/1995 | Vinegar et al.    |       |              |                               |
|                   | A167         | 5,415,231       | 05/1995 | Northrop et al.   |       |              |                               |
|                   | A168         | 5,431,224       | 07/1995 | Laali             |       |              |                               |
|                   | A169         | 5,433,271       | 07/1995 | Vinegar et al.    |       |              |                               |
|                   | A170         | 5,437,506       | 08/1995 | Gray              |       |              |                               |
|                   | A171         | 5,439,054       | 08/1995 | Chaback et al.    |       |              |                               |
|                   | A172         | 5,454,666       | 10/1995 | Chaback et al.    |       |              |                               |
|                   | A173         | 5,497,087       | 03/1996 | Vinegar et al.    |       |              |                               |
|                   | A174         | 5,498,960       | 03/1996 | Vinegar et al.    |       |              |                               |
|                   | A175         | 5,525,322       | 06/1996 | Willms            |       |              |                               |
|                   | A176         | 5,553,189       | 09/1996 | Stegemeier et al. |       |              |                               |
|                   | A177         | 5,554,453       | 09/1996 | Steinfeld et al.  |       |              |                               |
| GS                | A178         | 5,566,756       | 10/1996 | Chaback et al.    |       |              |                               |

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|-------------------|--------------|-----------------|---------|----------------------|-------|--------------|-------------------------------|
| GS                | A179         | 5,624,188       | 04/1997 | West                 |       |              |                               |
|                   | A180         | 5,656,239       | 08/1997 | Stegemeier et al.    |       |              |                               |
|                   | A181         | 5,676,212       | 10/1997 | Kuckes               |       |              |                               |
|                   | A182         | 5,862,858       | 01/1999 | Wellington et al.    |       |              |                               |
|                   | A183         | 5,899,269       | 05/1999 | Wellington et al.    |       |              |                               |
|                   | A184         | 5,968,349       | 10/1999 | Duyvesteyn et al.    |       |              |                               |
|                   | A185         | 5,984,010       | 11/1999 | Elias et al.         |       |              |                               |
|                   | A186         | 5,985,138       | 11/1999 | Humphreys            |       |              |                               |
|                   | A187         | 5,997,214       | 12/1999 | de Rouffignac et al. |       |              |                               |
|                   | A188         | 6,016,867       | 01/2000 | Gregoli et al.       |       |              |                               |
|                   | A189         | 6,016,868       | 01/2000 | Gregoli et al.       |       |              |                               |
|                   | A190         | 6,019,172       | 02/2000 | Wellington et al.    |       |              |                               |
|                   | A191         | 6,023,554       | 02/2000 | Vinegar et al.       |       |              |                               |
|                   | A192         | 6,056,057       | 05/2000 | Vinegar et al.       |       |              |                               |
|                   | A193         | 6,079,499       | 06/2000 | Mikus et al.         |       |              |                               |
|                   | A194         | 6,085,512       | 07/2000 | Agee et al.          |       |              |                               |
|                   | A195         | 6,094,048       | 07/2000 | Vinegar et al.       |       |              |                               |
|                   | A196         | 6,102,122       | 08/2000 | de Rouffignac        |       |              |                               |
|                   | A197         | 6,102,622       | 08/2000 | Vinegar et al.       |       |              |                               |
|                   | A198         | 6,152,987       | 11/2000 | Ma et al.            |       |              |                               |
|                   | A199         | 6,172,124       | 01/2001 | Wolflick et al.      |       |              |                               |
|                   | A200         | 6,173,775 B1    | 01/2001 | Elias et al.         |       |              |                               |
|                   | A201         | 6,187,465       | 02/2001 | Galloway             |       |              |                               |
|                   | A202         | Re. 30,738      | 09/1981 | Bridges et al.       |       |              |                               |
| GS                | A203         | Re. 35,696      | 12/1997 | Mikus                |       |              |                               |

**FOREIGN PATENT DOCUMENTS**

| EXAM.<br>INITIALS | REF.<br>DES. | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUB<br>CLASS | TRANSLATI<br>ON YES/NO |
|-------------------|--------------|-----------------|---------|---------|-------|--------------|------------------------|
| GS                | A204         | 121,737         | 03/1948 | Sweden  |       |              |                        |
| GS                | A205         | 123,136         | 11/1948 | Sweden  |       |              |                        |

EXAMINER: George Suchfield

DATE CONSIDERED: 5/30/03

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Form PTO-1449 (modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)

ATTY. DKT. NO. 5659-08100/TH20

SERIAL NO. 09/841,437

APPLICANT: Stegemeier, et al.

GROUP: 3672

FILING DATE: April 24, 2001

FOREIGN PATENT DOCUMENTS

| EXAM.<br>INITIALS | REF.<br>DES. | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUB<br>CLASS | TRANSLATI<br>ON YES/NO |
|-------------------|--------------|-----------------|---------|---------|-------|--------------|------------------------|
| GS                | A206         | 123,137         | 11/1948 | Sweden  |       |              |                        |
|                   | A207         | 123,138         | 11/1948 | Sweden  |       |              |                        |
|                   | A208         | 126,674         | 11/1949 | Sweden  |       |              |                        |
|                   | A209         | 1,196,594       | 11/1985 | CA      |       |              |                        |
|                   | A210         | 1,253,555       | 05/1989 | CA      |       |              |                        |
|                   | A211         | 1,288,043       | 08/1991 | CA      |       |              |                        |
|                   | A212         | 156,396         | 01/1921 | GB      |       |              |                        |
|                   | A213         | 674,082         | 06/1952 | GB      |       |              |                        |
|                   | A214         | 697,189         | 09/1953 | GB      |       |              |                        |
|                   | A215         | 1,454,324       | 11/1976 | GB      |       |              |                        |
|                   | A216         | 1,501,310       | 02/1978 | GB      |       |              |                        |
|                   | A217         | 2,086,416       | 05/1982 | GB      |       |              |                        |
|                   | A218         | 1836876         | 12/1994 | SU      |       |              |                        |
|                   | A219         | 0570228 B1      | 09/1996 | EP      |       |              |                        |
|                   | A220         | 99/01640        | 01/1999 | WO      |       |              |                        |
|                   | A221         | 95/06093        | 03/1995 | WO      |       |              |                        |
|                   | A222         | 95/12746        | 05/1995 | WO      |       |              |                        |
|                   | A223         | 95/33122        | 12/1995 | WO      |       |              |                        |
|                   | A224         | 95/12742        | 05/1995 | WO      |       |              |                        |
|                   | A225         | 95/12743        | 05/1995 | WO      |       |              |                        |
|                   | A226         | 95/12744        | 05/1995 | WO      |       |              |                        |
| GS                | A227         | 95/12745        | 05/1995 | WO      |       |              |                        |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

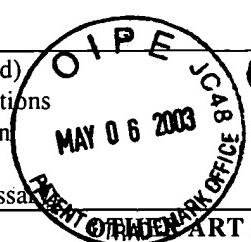
|    |      |   |
|----|------|---|
| GS | A228 | Some Effects of Pressure on Oil-Shale Retorting," Society of Petroleum Engineers Journal, J.H. Bae, September, 1969; pp. 287-292.   |
| GS | A229 | New in situ shale-oil recovery process uses hot natural gas; The Oil & Gas Journal; May 16, 1966, p. 151.   |
| GS | A230 | Evaluation of Downhole Electric Impedance Heating Systems for Paraffin Control in Oil Wells; Industry Applications Society 37 <sup>th</sup> Annual Petroleum and Chemical Industry Conference; The Institute of Electrical and Electronics Engineers Inc., Bosch et al., September 1990, pp. 223-227. |
| GS | A231 | New System Stops Paraffin Build-up; Petroleum Engineer, Eastlund et al., January 1989, (3 pages).   |
| GS | A232 | Oil Shale Retorting: Effects of Particle Size and Heating Rate on Oil Evolution and Intraparticle Oil Degradation; Campbell et al. In Situ 2(1), 1978, pp. 1-47.  |

EXAMINER: George Suchfield

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5/30/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.



ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |      |   |
|----|------|---|
| GS | A233 | The Potential For In Situ Retorting of Oil Shale In the Piceance Creek Basin of Northwestern Colorado; Dougan et al., Quarterly of the Colorado School of Mines, pp. 57-72.   |
|    | A234 | Retoring Oil Shale Underground-Problems & Possibilities; B.F. Grant, Qtly of Colorado School of Mines, pp 39-46.  |
|    | A235 | Molecular Mechanism of Oil Shale Pyrolysis in Nitrogen and Hydrogen Atmospheres, Hershkowitz et al.; Geochemistry and Chemistry of Oil Shales, American Chemical Society, 5/1983 pp. 301-316.                               |
|    | A236 | The Characteristics of a Low Temperature In Situ Shale Oil; George Richard Hill & Paul Dougan, Quarterly of the Colorado School of Mines, 1967; pp. 75-90.  |
|    | A237 | Direct Production Of A Low Pour Point High Gravity Shale Oil; Hill et al., I & EC Product Research and Development, 6(1), March 1967; pp. 52-59.  |
|    | A238 | Refining Of Swedish Shale Oil, L. Lundquist, pp. 621-627.   |
|    | A239 | The Benefits of In Situ Upgrading Reactions to the Integrated Operations of the Orinoco Heavy-Oil Fields and Downstream Facilities, Myron Kuhlman, Society of Petroleum Engineers, June 2000; pp. 1-14.                     |
|    | A240 | Monitoring Oil Shale Retorts by Off-Gas Alkene/Alkane Ratios, John H. Raley, Fuel, Vol. 59, June 1980, pp. 419-424.   |
|    | A241 | The Shale Oil Question, Old and New Viewpoints, A Lecture in the Engineering Science Academy, Dr. Fredrik Ljungstrom, February 23, 1950, published in Teknisk Trdskrift, January 1951 p. 33-40.                             |
|    | A242 | Underground Shale Oil Pyrolysis According to the Ljungstroem Method; Svenska Skifferolje Aktiebolaget (Swedish Shale Oil Corp.), IVA, Vol. 24, 1953, No. 3, pp. 118-123.  |
|    | A243 | Kinetics of Low-Temperature Pyrolysis of Oil Shale by the IITRI RF Process, Sresty et al.; 15 <sup>th</sup> Oil Shale Symposium, Colorado School of Mines, April 1982 pp. 1-13.   |
|    | A244 | Bureau of Mines Oil-Shale Research, H.M. Thorne, Quarterly of the Colorado School of Mines, pp. 77-90.  |
|    | A245 | Application of a Microretort to Problems in Shale Pyrolysis, A. W. Weitkamp & L.C. Gutberlet, Ind. Eng. Chem. Process Des. Develop. Vol. 9, No. 3, 1970, pp. 386-395.   |
|    | A246 | Oil Shale, Yen et al., Developments in Petroleum Science 5, 1976, pp. 187-189, 197-198.   |
|    | A247 | The Composition of Green River Shale Oils, Glenn L. Cook, et al., United Nations Symposium on the Development and Utilization of Oil Shale Resources, 1968, pp. 1-23.   |
|    | A248 | High-Pressure Pyrolysis of Green River Oil Shale, Burnham et al., Geochemistry and Chemistry of Oil Shales, American Chemical Society, 1983, pp. 335-351.   |
|    | A249 | Geochemistry and Pyrolysis of Oil Shales, Tissot et al., Geochemistry and Chemistry of Oil Shales, American Chemical Society, 1983, pp. 1-11.   |
|    | A250 | A Possible Mechanism of Alkene/Alkane Production, Burnham et al., Oil Shale, Tar Sands, and Related Materials, American Chemical Society, 1981, pp. 79-92.  |
|    | A251 | The Ljungstroem In-Situ Method of Shale Oil Recovery, G. Salomonsson, Oil Shale and Cannel Coal, Vol. 2, Proceedings of the Second Oil Shale and Cannel Coal Conference, Institute of Petroleum, 1951, London, pp. 260-280. |
|    | A252 | Developments in Technology for Green River Oil Shale, G.U. Dinneen, United Nations Symposium on the Development and Utilization of Oil Shale Resources, Laramie Petroleum Research Center, Bureau of Mines, 1968, pp.1-20.  |
|    | A253 | The Thermal and Structural Properties of a Hanna Basin Coal, R.E. Glass, Transactions of the ASME, Vol. 106, June 1984, pp. 266-271.  |
|    | A254 | The Thermal and Structural Properties of the Coal in the Big Coal Seam, R.E. Glass, In Situ, 8(2), 1984, pp. 193-205.   |
|    | A255 | Investigation of the Temperature Variation of the Thermal Conductivity and Thermal Diffusivity of Coal, Badzioch et al., Fuel, Vol. 43, No. 4, July 1964, pp. 267-280.  |
|    | A256 | On the Mechanism of Kerogen Pyrolysis, Alan K. Burnham & James A. Happe, January 10, 1984 (17 pages).   |
| GS | B1   | Proposed Field Test of the Lins Method Thermal Oil Recovery Process in Athabasca McMurray Tar Sands, Husky Oil Company.   |

EXAMINER:

George Suchfield

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#28291  
5/8/03

# Electronic Information Disclosure Statement

## IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION USING PRESSURE AND/OR TEMEPRATURE CONTROL

Application:



09/841437

Confirmation:

5260

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MAY 05 2003

Applicant(s):

George Stegemeier

GROUP 3600

Docket Number:

5659-08100

Group Art Unit:

Suchfield, G.

Examiner:

( 3349845 ).pn.

05/01/2003 GWDR00F1 00000026 501505 09841437

01 FC:1806 180.00 CH

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Citation No. | Patent Number | Date       | Bar Code | Patentee       | Class | Subclass |
|------|--------------|---------------|------------|----------|----------------|-------|----------|
| GJ   | P01          | 3349845       | 1967-10-31 |          | Holbert et al. |       |          |

### Remarks

(Remarks are not for responding to an office action.)

Part 2 of IDS electronically filed on 4/30/2003

|           |     |         |            |  |                  |
|-----------|-----|---------|------------|--|------------------|
| <i>GS</i> | P03 | 4042026 | 1977-08-16 |  | Pusch et al.     |
|           | P04 | 4005752 | 1977-02-01 |  | Cha              |
|           | P05 | 5126037 | 1992-06-30 |  | Showalter        |
|           | P06 | 5868202 | 1999-02-09 |  | Hsu              |
|           | P07 | 6485232 | 2001-11-26 |  | Vinegar et al.   |
|           | P08 | 4193451 | 1980-03-18 |  | Dauphine         |
|           | P09 | 4265307 | 1981-05-05 |  | Elkins           |
|           | P10 | 4390067 | 1983-06-28 |  | Wilman           |
|           | P11 | 4456065 | 1984-06-26 |  | Heim et al.      |
|           | P12 | 4457374 | 1984-07-03 |  | Hoekstra et al.  |
|           | P13 | 4479541 | 1984-10-30 |  | Wang             |
|           | P14 | 4498535 | 1985-02-12 |  | Bridges          |
|           | P15 | 4598770 | 1986-07-08 |  | Shu et al.       |
|           | P16 | 4669542 | 1987-06-02 |  | Venkatesan       |
|           | P17 | 4682652 | 1987-07-28 |  | Huang et al.     |
|           | P18 | 4982786 | 1991-01-08 |  | Jennings, Jr.    |
|           | P19 | 5201219 | 1993-04-13 |  | Bandurski et al. |
| <i>GS</i> | P20 | 5339904 | 1994-08-23 |  | Jennings, Jr.    |

## Signature

| Examiner Name    | Date    |
|------------------|---------|
| George Suchfield | 5/30/03 |



# Electronic Information Disclosure Statement

## IN SITU THERMAL PROCESSING OF A HYDROCARBON FORMATION USING PRESSURE AND/OR TEMPERATURE CONTROL

#P1  
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5/8/03

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GROUP 3600

Application:

09/841437

Confirmation: 5260

Applicant(s): George Stegemeier

Docket Number: 5659-08100

Group Art

Unit:

Examiner: Suchfield, G.

search string: (3221811 or 3987851 or 4042026 or 4005752 or 5126037 or 5868202 or 6485232 or 4193451 or 4265307 or 4390067 or 4456065 or 4457374 or 4479541 or 4498535 or 4598770 or 4669542 or 4682652 or 4982786 or 5201219 or 5339904 or 20020018697).pn.

05/01/2003 GWORDDF1 00000025 501505 09841437

01 FC:1806 180.00 CH

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Citation No. | Patent Number | Date       | Bar Code | Patentee | Class | Subclass |
|------|--------------|---------------|------------|----------|----------|-------|----------|
| 69   | P01          | 3221811       | 1965-12-07 |          | Prats    |       |          |
| 69   | P02          | 3987851       | 1976-10-26 |          | Tham     |       |          |

## Published Applications

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Citation No. | Patent Number | Date       | Bar Code   | Patentee       | Class | Subclass |
|------|--------------|---------------|------------|--|----------------|-------|----------|
| GJ   | U01          | 20020018697   | 2002-02-14 |  | Vinegar et al. |       |          |

## Remarks

(Remarks are not for responding to an office action.)

Other art associated with this submission will be submitted on a PTO Form 1449.

## Signature

|                  |         |
|------------------|---------|
| Examiner Name    | Date    |
| George Suchfield | 5/30/03 |